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Substitute for form 1449B/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 1

### Complete if Known

Application Number	10/060,472
Filing Date	January 29, 2002
First Named Inventor	BRAUN, et al.
Art Unit	2186
Examiner Name	Anderson, Matthew D. <i>Tuan Thai</i>
Attorney Docket Number	(IMM 078B) 51851-280457

### U.S. PATENT DOCUMENTS

Examiner	Cite No. <sup>1</sup>	Document Number Number Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
<i>Th</i>	1	6,219,034	4/17/01	Elbing, et al.	

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)			
<i>Th</i>	2	JP	H1-3664 (H-2 185278)		7/19/1990	Taito Corporation	✓
<i>Th</i>	3	JP	H2-109714 (H4-8381)		1/13/1992	Epoch Co. and Key- Planning Co.	✓
<i>Th</i>	4	JP	H5-193862 (H7-24147)		1/27/1995	Sega Corporation	✓
<i>Th</i>	5	JP	H4-007371 (H5-192449)		8/3/1993	Taito Corporation	✓

### OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

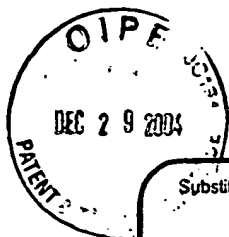
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	
<i>Th</i>	6	SCANNELL, "Taking a Joystick Ride," Computer Currents, Boston Edition, Vol. 9, No. 11, November 1994.	

Examiner Signature	<i>Tuan Thai</i>	Date Considered	09/16/06
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

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**INFORMATION DISCLOSURE  
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Sheet 1 of 5

**Complete if Known**

Application Number	10/060,472
Filing Date	January 29, 2002
First Named Inventor	Adam C. Braun, et al.
Group Art Unit	2186
Examiner Name	Anderson, Matthew D.
Attorney Docket Number	IMM078B

**U.S. PATENT DOCUMENTS**

Examiner	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Kind Code <sup>2</sup> (if known)			
M.	AA	3,220,121	11/30/1965	Cutler	
	AB	3,517,446	6/30/1970	Cortyon et al.	
	AC	3,903,614	9/9/1975	Diamond et al.	
	AD	4,236,325	10/2/1980	Hall et al.	
	AE	4,513,235	4/23/1985	Acklam et al.	
	AF	4,599,070	7/8/1986	Hladky et al.	
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	AK	5,022,407	6/11/1991	Horch et al.	
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	AM	5,271,290	12/21/1993	Fischer	
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	AQ	3,497,668	2/24/1970	Hirsch	
	AR	3,902,687	6/25/1973	Hightower	
	AS	4,160,508	7/10/1979	Salsbury	
	AT	4,581,491	4/8/1986	Boothroyd	
	AU	4,930,770	6/5/1990	Baker	
	AV	4,934,694	6/19/1990	McIntosh	
	AW	5,035,242	7/30/1991	Franklin	
	AX	5,038,089	8/6/1991	Szakaly	
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	BA	5,309,140	5/3/1994	Everett	
	BB	5,334,027	8/2/1994	Wherlock	
	BC	5,547,382	8/20/1996	Yamasaki	
	BD	5,212,473	5/18/1993	Louis	
	BE	5,466,213	11/14/1995	Hogan	
	BF	5,766,016	6/16/1998	Sinclair	
	BG	5,186,685	2/16/1993	Mangseth et al.	
	BH	6,422,941	7/23/2002	Thomer et al.	
	BI	6,111,577	8/29/2000	Zilles et al.	

Examiner  
Signature

Thau Thau

Date  
Considered

09/16/06

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Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet 2 of 5**Complete If Known**

Application Number	10/060,472
Filing Date	January 29, 2002
First Named Inventor	Adam C. Braun, et al.
Group Art Unit	2186
Examiner Name	Anderson, Matthew D. <i>Thai</i>
Attorney Docket Number	IMM078B

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code <sup>2</sup>	Number <sup>3</sup>	Kind Code <sup>4</sup> (if known)			
<i>Th</i>	BJ	EP	EP0349086		1/31/1990	Visser	

Examiner Signature	<i>Thai</i>	Date Considered	<i>09/16/06</i>
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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet

3

of

5

**Complete if Known**

Application Number

10/060,472

Filing Date

January 29, 2002

First Named Inventor

Adam C. Braun, et al.

Group Art Unit

2186

Examiner Name

Anderson, Matthew D. Tuan Thai

Attorney Docket Number

IMM078B

**OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	
Th	BK	BAIGRIE, "Electric Control Loading - A Low Cost, High Performance Alternative," Proceedings, pp. 247-254, November 6-8, 1990.	
	BL	IWATA, "Pen-based Haptic Virtual Environment," 0-7803-1363-1/93 IEEE, pp 287-292, 1993.	
	BM	RUSO, "The Design and Implementation of a Three Degree of Freedom Force Output Joystick," MIT Libraries Archives 08/14/1990, pp. 1-131, May 1990.	
	BN	BROOKS et al., "Hand Controllers for Teleoperation - A State-of-the-Art Technology Survey and Evaluation," JPL Publication 85-11; NASA-CR-175890; N85-28559, pp. 1-84, 03/1/1985.	
	BO	JONES et al., "A perceptual analysis of stiffness," ISSN 0014-4819 Springer International (Springer-Verlag); Experimental Brain Research, Vol. 79, No. 1, pp. 150-156, 1990.	
	BP	BURDEA et al., "Distributed Virtual Force Feedback, Lecture Notes for Workshop on Force Display in Virtual Environments and its Application to Robotic Teleoperation," 1993 IEEE International Conference on Robotics and Automation, pp. 25-44, 05/02/1993.	
	BQ	SNOW et al., "Model-X Force-Reflecting-Hand-Controller," NT Control no. MPO-17851; JPL Case No. 5348, pp. 1-4, 06/15/1989.	
	BR	OUH-YOUNG, "Force Display in Molecular Docking," Order No. 9034744, p. 1-369, 1990.	
	BS	TADROS, "Control System Design for a Three Degree of Freedom Virtual Environment Simulator Using Motor/Brake Pair Actuators, MIT Archive© Massachusetts Institute of Technology, pp. 1-88, February 1990.	
	BT	CALDWELL et al., "Enhanced Tactile Feedback (Tele-Traction) Using a Multi-Functional Sensory System," 1050-4729/93, pp. 955-960, 1993.	
	BU	ADELSTEIN, "Design and Implementation of a Force Reflecting Manipulandum for Manual Control research," DSC-Vol. 42, Advances in Robotics, Edited by H. Kazerooni, pp. 1-12, 1992.	
	BV	GOTOW et al., "Controlled Impedance Test Apparatus for Studying Human Interpretation of Kinesthetic Feedback," WA11-11:00, pp. 332-337	
	BW	STANLEY et al., "Computer Simulation of Interacting Dynamic Mechanical Systems Using Distributed Memory Parallel Processors," DSV-Vol. 42, Advances in Robotics, pp. 55-61, ASME 1992.	
Th	BX	RUSO, "Controlling Dissipative Magnetic Particle Brakes in Force Reflective Devices," DSC-Vol. 42, Advances in Robotics, pp. 63-70, ASME 1992.	

Examiner  
Signature

Tuan Thai

Date

Considered

09/16/06

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Substitute for form 1449A/PTO		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		Application Number	10/060,472
		Filing Date	January 29, 2002
		First Named Inventor	Adam C. Braun, et al.
		Group Art Unit	2186
		Examiner Name	Anderson, Matthew DS. <i>File as 11/9</i>
Sheet 4 of 5	Attorney Docket Number	IMM078B	

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	
<i>TH</i>	BY	KONTARINIS et al., "Display of High-Frequency Tactile Information to Teleoperators," Telemanipulator Technology and Space Telerobotics, Won S. Kim, Editor, Proc. SPIE Vol. 2057, pp. 40-50, Sep. 7-9, 1993.	
	BZ	PATRICK et al., "Design and Testing of A Non-reactive, Fingertip, Tactile Display for Interaction with Remote Environments," Cooperative Intelligent Robotics in Space, Rui J. deFigueiredo et al., Editor, Proc. SPIE Vol. 1387, pp. 215-222, 1990.	
	CA	ADELSTEIN, "A Virtual Environment System For The Study of Human Arm Tremor," Ph.D. Dissertation, Dept. of Mechanical Engineering, MIT, June 1989.	
	CB	BEJCZY, "Sensors, Controls, and Man-Machine Interface for Advanced Teleoperation," Science, Vol. 208, No. 4450, pp. 1327-1335, 1980.	
	CC	BEJCZY, "Generalization of Bilateral Force-Reflecting Control of Manipulators," Proceedings Of Fourth CISM-IFTOMM, Sep. 8-12, 1981.	
	CD	McAFFEE, "Teleoperator Subsystem/Telerobot Demonstration: Force Reflecting Hand Controller Equipment Manual," JPL D-5172, pp. 1-50, A1-A36, B1-B5, C1-C36, January 1988.	
	CE	MINISKY, "Computational Haptics: The Sandpaper System for Synthesizing Texture for a Force-Feedback Display," Ph.D. Dissertation, MIT, June 1995.	
	CF	JACOBSEN et al., "High Performance, Dexterous Telerobotic Manipulator With Force Reflection," Intervention/ROV '91 Conference & Exposition, Hollywood, Florida, May 21-23, 1991.	
	CG	SHIMOGA, "Finger Force and Touch Feedback Issues in Dexterous Telemanipulation," Proceedings of Fourth Annual Conference on Intelligent Robotic Systems for Space Exploration, Rensselaer Polytechnic Institute, Sep. 30 - Oct. 1, 1992.	
	CH	IBM Technical Disclosure Bulletin, "Mouse Ball-Actuating Device With Force and Tactile Feedback," Vol. 32, No. 9B, February 1990.	
	CI	TERRY et al., "Tactile Feedback In A Computer Mouse," Proceedings of Fourteenth Annual Northeast Bioengineering Conference, University of New Hampshire, March 10-11, 1988.	
	CJ	HOWE, "A Force-Reflecting Teleoperated Hand System for the Study of Tactile Sensing in Precision Manipulation," Proceedings of the 1992 IEEE International Conference on Robotics and Automation, Nice, France, May 1992.	
	CK	EBERHARDT et al., "OMAR - A Haptic display for speech perception by deaf and def-blind individuals," IEEE Virtual Reality Annual International Symposium, Seattle, WA, Sep. 18-22, 1993.	
<i>TH</i>	CL	RABINOWITZ et al., "Multidimensional tactile displays: Identification of vibratory intensity, frequency, and contour area," Journal of The Acoustical Society of America, Vol. 82, No. 4, October 1987.	

Examiner Signature	<i>Thuan Phai</i>	Date Considered	09/16/06
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Sheet 5 of 5**Complete if Known**

Application Number	10/060,472
Filing Date	January 29, 2002
First Named Inventor	Adam C. Braun, et al.
Group Art Unit	2186
Examiner Name	Anderson, Matthew D. Tuan Thai
Attorney Docket Number	IMM078B

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TN	CM	BEJCZY et al., "Kinesthetic Coupling Between Operator and Remote Manipulator," International Computer Technology Conference, The American Society of Mechanical Engineers, San Francisco, CA, August 12-15, 1980.	
	CN	BEJCZY et al., "A Laboratory Breadboard System For Dual-Arm Teleoperation," SOAR '89 Workshop, JSC, Houston, TX, July 25-27, 1989.	
	CO	OUH-YOUNG, "A Low-Cost Force Feedback Joystick and Its Use in PC Video Games," IEEE Transactions on Consumer Electronics, Vol. 41, No. 3, August 1995.	
	CP	MARCUS, "Touch Feedback in Surgery," Proceedings of Virtual Reality and Medicine The Cutting Edge, Sep. 8-11, 1994.	
	CQ	BEJCZY, et al., "Universal Computer Control System (UCCS) For Space Telerobots," CH2413-3/87/0000/0318501.00 1987 IEEE, 1987.	
	CR	AUKSTAKALNIS et al., "Silicon Mirage: The Art and Science of Virtual Reality," ISBN 0-938151-82-7, pp. 129-180, 1992.	
	CS	EBERHARDT et al., "Including Dynamic Haptic Perception by The Hand: System Description and Some Results," DSC-Vol. 55-1, Dynamic Systems and Control: Volume 1, ASME 1994.	
	CT	GOBEL et al., "Tactile Feedback Applied to Computer Mice," International Journal of Human-Computer Interaction, Vol. 7, No. 1, pp. 1-24, 1995.	
	CU	PIMENTEL et al., "Virtual Reality: through the new looking glass," 2 <sup>nd</sup> Edition; McGraw-Hill, ISBN 0-07-050167-X, pp. 41-202, 1994.	
	CV	"Cyberman Technical Specification," Logitech Cyberman SWIFT Supplement, 4/5/1994.	
	CW	OUHYOUNG et al., "The Development of A Low-Cost Force Feedback Joystick and Its Use in the Virtual Reality Environment," Proceedings of the Third Pacific Conference on Computer Graphics and Applications, Pacific Graphics '95, Seoul, Korea, 21-24 August 1995.	
TN	CX	KACZMAREK et al., "Tactile Displays," Virtual Environment Technologies.	

Examiner Signature	Tuan Thai	Date Considered	09/16/06
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